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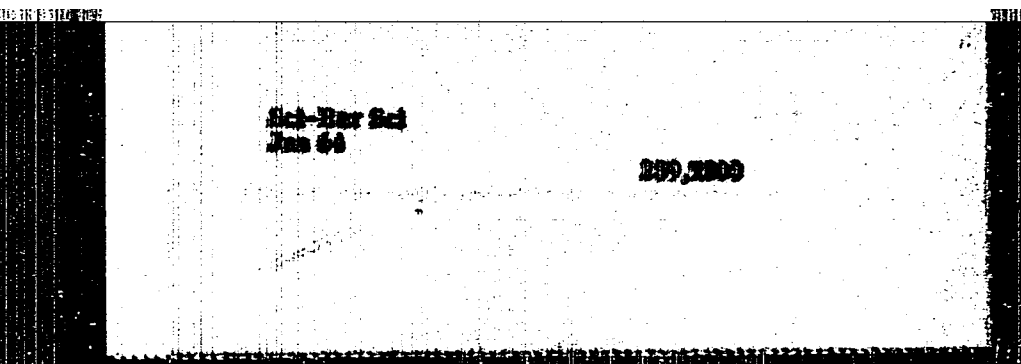
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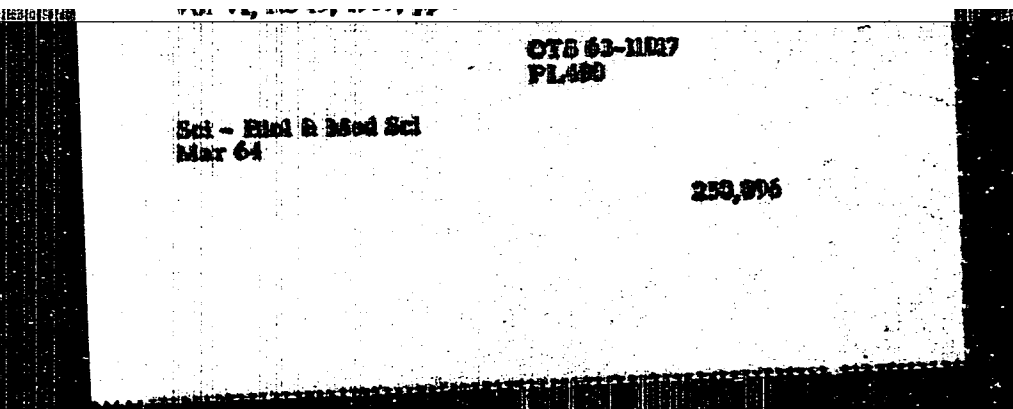
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Synthesis, Polymerization.

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DESCRIPTORS: *Polymers, Synthesis, Molecular
structure, Polymerization, *Phosphonic acids, Copoly-
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8 pp.

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CARBON CHAIN POLYMERS AND COPOLYMERS. X.
BLOCK POLYMERIZATION OF METHYLMETHACRY-
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May 61 [12]p. 3 refs. Technical notes FRL-TN-48;
AD-256 286.

Order from OTS or SLA \$1. 60

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Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 3, p. 362-366.

DESCRIPTORS: *Polymers, Synthesis, Molecular struc-
ture, *Acrylic resins, Polymerization, Methyl radicals.

The kinetics of block polymerization of methylmethacry-
late in the presence of tributylboron was studied, and
the effect of temperature and catalyst concentration on
the polymerization rate and on the molecular weight of
polymethylmethacrylate elucidated. (Author)

(Chemistry--Organic, TT, v. 6, no. 6)

61-19779

- I. Kolesnikov, G. S.
- II. Klimentova, N. V.
- III. Title: Block ...
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- VII. AD-756 286

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HEPTA-2,5-DIENE AND 1,2,3,4,7,7-HEXACHLORO-
BICYCLO(2.2.1)HEPTA-2,5-DIENE. [1961] 5p.
Order from ATS \$6.75 ATS-19N52R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 3, p. 451-455.

DESCRIPTORS: Polymerization, Copolymerization,
Condensation reaction, Polymers, Cyclic compounds,
Chlorine compounds

(Chemistry--Organic, TT, v. 6, no. 4)

61-22936

- I. Kolesnikov, G. S.
- II. Suprun, A. P.
- III. Title: Copolymers ...
- IV. ATS-19N52R
- V. Associated Technical
Services, Inc., East
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BY THE REACTION OF POLY(METHYL METHACRY-
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6p.
Order from ATS \$8.00

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(Chemistry--Organic, TT, v. 5, no. 8)

61-12764

1. Polymers--Synthesis
2. Copolymerization--Analysis
3. Acrylates--Polymerization
4. Ethylenes--Polymerization
5. Title: Graft copolymers
- I. Kolesnikov, G. S.
- II. Tazen, Khan-min
- III. ATS-13N49R
- IV. Title: Preparation...
- V. Associated Technical
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Office of Technical Services

61-13702

Kolesnikov, G. S., Davydova, S. L., and
Yermolayeva, T. I.

CARBOCHAIN POLYMERS AND COPOLYMERS. XVII.
POLIMERISATION OF DIALLYL DERIVATIVES OF
SILICON AND GERMANIUM (Karbotsepnnye Polimery
i Sopolimery. XVII. Polimerizatsiya Diallilnykh
Proyzvodnykh Kremniya i Germaniya). [1960] 4p.
8 refs. M. 2207.

Order from LC or SLA mi\$1.80, ph\$1.80 61-13702

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1493-1495.

Diallyl derivatives of silicon and germanium in pres-
ence of triethylaluminum and titanium tetrachloride
yield low molecular weight polymers. A structure is
proposed for the products obtained.

(Chemistry--Organic, TT, v. 5, no. 2)

1. Allyl compounds--
Polymerization
2. Silicon compounds
(Organic)--Polymerization
3. Germanium compounds
(Organic)--Polymerization
- I. Kolesnikov, G. S.
- II. Davydova, S. L.
- III. Yermolayeva, T. I.
- IV. Title: Polymerization...
- V. DSIR LLU M. 2207

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Kolesnikov, G. S. and [Fedorova, L. S.].
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[1960] 8p. 6 refs.

Order from SLA m/\$1.80, ph/\$1.80 60-18428

Trans. of [Vysokomolekulyarnyye Soyedineniya] (USSR)
1959, v. 1 [no. 8] p. 1266-1269.

It was shown that the polymerization of acrylonitrile in emulsion and with the use of tributylboron as a catalyst takes place only in the presence of oxygen or an oxygen donor, for example hydrogen peroxide. Methylmethacrylate and styrene polymerize in the absence of oxygen with diminished yields below those in the presence of oxygen. The formation of compounds of a peroxide nature was shown qualitatively in emulsion polymerization of acrylonitrile in the presence of tributylboron and oxygen of the air and assumptions were made concerning their structure. A study was made of (Chemistry--Organic, TT, v. 5, no. 3) (over)

60-18428

1. Boron compounds (Organic)--
Chemical reactions
2. Vinyl polymers--Synthesis
1. Kolesnikov, G. S.
- II. Fedorova, L. S.
- III. Title: Emulsion...

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RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 4, 1959,
pp 627-634.

ATS RJ-2132

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Kolesnikov, S. L. Davydova, 5 pp.

RUSSIAN, per Uspekhi Khim, Vol XXIX, No 12, 1960,
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Carbon Chain Polymers and Copolymers. VIII.
Solution Polymerization of Styrene and Methyl
Methacrylate in the Presence of Tributylboron,
by G. S. Kolesnikov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 4, 1959, pp 727-730.

ATS RJ-2131

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